Lab MITKEM(Mitkem Laboratories) SDG MF2A74 Case 43795 Contract EPW09039 Region 6 DDTID 183650 SOW ISM01.3

### Data Review Reports

ICP_AES
The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.
PBS51, MF2A26, MF2A51
Calcium PBS51, MF2A26, MF2A51
ICP_AES
The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated at CRQLs.
PBS51, MF2A26, MF2A51
Calcium PBS51, MF2A26, MF2A51
ICP_AES
The following samples have analyte results greater than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.  LCS51, MF2A00, MF2A00D, MF2A00L, MF2A01, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A49, MF2A72, MF2A74, MF2A76, MF2A77, MF2A78, MF2A80, MF2A82, MF2A83  Calcium LCS51, MF2A00, MF2A00D, MF2A00L, MF2A00L, MF2A01, MF2A01, MF2A01, MF2A17, MF2A18, MF2A23, MF2A24, MF2A24, MF2A49, MF2A49, MF2A74, MF2A74, MF2A76, MF2A77,
MF2A78, MF2A79, MF2A80, MF2A83
ICP_AES
The following samples have analyte results greater than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.  LCS51, MF2A00, MF2A00D, MF2A00L, MF2A01, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A49, MF2A74, MF2A74, MF2A76, MF2A77, MF2A78, MF2A80, MF2A82, MF2A83  Calcium LCS51, MF2A00, MF2A00D, MF2A00L, MF2A01, MF2A01, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A49, MF2A72, MF2A74, MF2A74, MF2A76, MF2A77, MF2A78, MF2A79, MF2A80, MF2A80, MF2A80, MF2A80, MF2A80, MF2A80, MF2A83
ICP_AES
The following samples have analyte results greater than or equal to MDLs but less than or equal to CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.  MF2A26, MF2A51
Calcium MF2A26, MF2A51
ICP_AES
The following samples have analyte results greater than CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualify detected and nondetected analytes.  LCS51, MF2A00, MF2A00D, MF2A00L, MF2A01, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A49, MF2A74, MF2A74, MF2A76, MF2A77, MF2A78, MF2A80, MF2A82, MF2A83  Calcium LCS51, MF2A00, MF2A00D, MF2A00L, MF2A01, MF2A01, MF2A01, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A49, MF2A72, MF2A74, MF2A74, MF2A76, MF2A77,

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Blanks	ICP_MS
ND03	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.  MF2A00L, MF2A01, MF2A26, MF2A49, MF2A51, MF2A77, MF2A00, MF2A00D, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A72, MF2A74, MF2A76, MF2A78, MF2A78
	MF2A79, MF2A80, MF2A82, MF2A83, PBS54  Vanadium MF2A00L, MF2A01, MF2A26, MF2A49, MF2A51, MF2A77
	Barium MF2A26, MF2A51
	Cobalt MF2A00L, MF2A01, MF2A26, MF2A49, MF2A77
	Beryllium MF2A00, MF2A00D, MF2A00L, MF2A01, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A72, MF2A74, MF2A76, MF2A78, MF2A79, MF2A80, MF2A82, MF2A83
	Antimony MF2A25, MF2A72, PBS54
	Cadmium MF2A00, MF2A00D, MF2A00L, MF2A01, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A49, MF2A72, MF2A74, MF2A76, MF2A78, MF2A80, MF2A82, MF2A83
	Silver MF2A00, MF2A00, MF2A01, MF2A01, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A49, MF2A51, MF2A72, MF2A74, MF2A76, MF2A77, MF2A78, MF2A79, MF2A80, MF2A82
Blanks	ICP_MS
ND04	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated at CRQLs.
	MF2A01, MF2A26, MF2A49, MF2A51, MF2A77, MF2A02, MF2A00, MF2A00D, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A72, MF2A74, MF2A76, MF2A78, MF2A79, MF2A80, MF2A82, MF2A83, PBS54
	Vanadium MF2A01, MF2A26, MF2A49, MF2A51, MF2A77
	Arsenic MF2A02, MF2A26, MF2A49, MF2A51, MF2A77
	Barium MF2A26, MF2A51
	Cobalt MF2A01, MF2A26, MF2A49, MF2A77
	Beryllium MF2A00, MF2A00D, MF2A01, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A72, MF2A74, MF2A76, MF2A78, MF2A79, MF2A80, MF2A82, MF2A83
	Antimony MF2A25, MF2A72, PBS54
	Cadmium MF2A00, MF2A00, MF2A01, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A49, MF2A72, MF2A74, MF2A76, MF2A78, MF2A80, MF2A82, MF2A83
	Silver MF2A00, MF2A00, MF2A01, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A49, MF2A51, MF2A72, MF2A74, MF2A76, MF2A77, MF2A78, MF2A79, MF2A80, MF2A82
Blanks	ICP_MS
ND05	The following samples have analyte results greater than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.
	LCS54, MF2A00, MF2A00D, MF2A00S, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A72, MF2A74, MF2A76, MF2A78, MF2A79, MF2A80, MF2A82, MF2A83, MF2A00A, MF2A00L, MF2A01, MF2A49, MF2A77, MF2A26, MF2A51
	Vanadium LCS54, MF2A00, MF2A00D, MF2A00S, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A72, MF2A74, MF2A76, MF2A78, MF2A79, MF2A80, MF2A82, MF2A83

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Blanks	ICP_MS
	Selenium LCS54, MF2A00S
	Arsenic MF2A00A
	Cobalt LCS54, MF2A00, MF2A00D, MF2A00S, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A72, MF2A74, MF2A76, MF2A78, MF2A79, MF2A80, MF2A82, MF2A83
	Barium LCS54, MF2A00, MF2A00D, MF2A00L, MF2A00S, MF2A01, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A49, MF2A72, MF2A74, MF2A76, MF2A77, MF2A78, MF2A79, MF2A80, MF2A82, MF2A83
	Beryllium LCS54, MF2A00S
	Antimony LCS54, MF2A00A, MF2A00S
	Thallium LCS54, MF2A00S
	Cadmium LCS54, MF2A00S, MF2A79
	Silver LCS54, MF2A00S
	Lead LCS54, MF2A00, MF2A00D, MF2A00L, MF2A00S, MF2A01, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A26, MF2A49, MF2A51, MF2A72, MF2A74, MF2A76, MF2A77, MF2A78, MF2A80, MF2A82, MF2A83
Blanks	ICP_MS
ND06	The following samples have analyte results greater than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.
	LCS54, MF2A00, MF2A00D, MF2A00S, MF2A02, MF2A18, MF2A23, MF2A24, MF2A25, MF2A72, MF2A74, MF2A76, MF2A78, MF2A79, MF2A80, MF2A82, MF2A83, MF2A17, MF2A77, MF2A00A, MF2A26
	Vanadium LCS54, MF2A00, MF2A00D, MF2A00S, MF2A02, MF2A18, MF2A23, MF2A24, MF2A25, MF2A72, MF2A74, MF2A76, MF2A78, MF2A79, MF2A80, MF2A82, MF2A83
	Selenium LCS54, MF2A00S
	Arsenic MF2A25, MF2A72, MF2A76
	Cobalt LCS54, MF2A00, MF2A00D, MF2A00S, MF2A25, MF2A72, MF2A74, MF2A76, MF2A82, MF2A83
	Barium LCS54, MF2A00, MF2A00D, MF2A00S, MF2A17, MF2A25, MF2A72, MF2A74, MF2A76, MF2A77, MF2A82, MF2A83
	Beryllium LCS54, MF2A00S
	Antimony LCS54, MF2A00A
	Thallium LCS54, MF2A00S
	Cadmium LCS54, MF2A00S
	Copper LCS54, MF2A00, MF2A00D, MF2A00S, MF2A74, MF2A82, MF2A83
	Silver LCS54, MF2A00S
	Lead LCS54, MF2A00, MF2A00D, MF2A00S, MF2A17, MF2A25, MF2A26, MF2A72, MF2A74, MF2A76, MF2A77, MF2A82, MF2A83

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### Data Review Reports

Blanks	ICP_MS
Blanks	ICP_MS
NE04	The following samples have analyte results greater than or equal to MDLs but less than or equal to CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.
	MF2A26, MF2A51, MF2A77, MF2A25, MF2A72
	Zinc MF2A26, MF2A51, MF2A77
	Antimony MF2A25, MF2A72
Blanks	ICP_MS
NE05	The following samples have analyte results greater than CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	LCS54, MF2A00, MF2A00D, MF2A00L, MF2A00S, MF2A01, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A49, MF2A72, MF2A74, MF2A76, MF2A78, MF2A79, MF2A80, MF2A82, MF2A83, MF2A00A
	Zinc LCS54, MF2A00, MF2A00D, MF2A00L, MF2A00S, MF2A01, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A49, MF2A72, MF2A74, MF2A76, MF2A78, MF2A79, MF2A80, MF2A82, MF2A83
	Antimony LCS54, MF2A00A, MF2A00S

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### Data Review Reports

Detection Limit

Detection Limit	Hg
NDL1	The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J.
	MF2A00, MF2A00D, MF2A01, MF2A17, MF2A23, MF2A24, MF2A25, MF2A49, MF2A74, MF2A76, MF2A79, MF2A80, MF2A83
	Mercury MF2A00, MF2A00, MF2A01, MF2A17, MF2A23, MF2A24, MF2A25, MF2A49, MF2A74, MF2A76, MF2A79, MF2A80, MF2A83

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### Data Review Reports

Detection Limit

Detection Limit	ICP_AES
NDL1	The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J.
	MF2A00L, MF2A17, MF2A23, MF2A24, MF2A25, MF2A72, MF2A74, MF2A76, PBS51, MF2A26, MF2A51, MF2A01, MF2A49, MF2A77
	Sodium MF2A00L, MF2A17, MF2A23, MF2A24, MF2A25, MF2A72, MF2A74, MF2A76
	Calcium PBS51, MF2A26, MF2A51
	Potassium MF2A00L, MF2A01, MF2A24, MF2A26, MF2A49, MF2A51, MF2A77
	Magnesium MF2A00L, MF2A01, MF2A26, MF2A49, MF2A77

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### Data Review Reports

Detection Limit

Detection Limit	ICP_MS
NDL1	The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J.
	MF2A00L, MF2A01, MF2A26, MF2A49, MF2A51, MF2A77, MF2A02, MF2A74, PBS54, MF2A00, MF2A00D, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A72, MF2A76, MF2A78, MF2A79, MF2A80, MF2A82, MF2A83
	Vanadium MF2A00L, MF2A01, MF2A26, MF2A49, MF2A51, MF2A77
	Arsenic MF2A02, MF2A26, MF2A49, MF2A51, MF2A74, MF2A77
	Chromium MF2A26, MF2A49, MF2A51, MF2A77
	Barium MF2A26, MF2A51
	Cobalt MF2A00L, MF2A01, MF2A26, MF2A49, MF2A77
	Zinc MF2A26, MF2A51, MF2A77, PBS54
	Nickel MF2A26, MF2A49, MF2A51
	Beryllium MF2A00, MF2A00D, MF2A00L, MF2A01, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A72, MF2A74, MF2A76, MF2A78, MF2A79, MF2A80, MF2A82, MF2A83
	Antimony MF2A25, MF2A72, PBS54
	Cadmium MF2A00 , MF2A00 , MF2A00 , MF2A01 , MF2A02 , MF2A17 , MF2A18 , MF2A23 , MF2A24 , MF2A25 , MF2A49 , MF2A72 , MF2A74 , MF2A76 , MF2A78 , MF2A80 , MF2A82 , MF2A83
	Copper MF2A26, MF2A51, MF2A77
	Silver MF2A00, MF2A00, MF2A01, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A49, MF2A51, MF2A72, MF2A74, MF2A76, MF2A77, MF2A78, MF2A79, MF2A80, MF2A82

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### Data Review Reports

Duplicates

Duplicates	ICP_AES
NI03	The following Duplicate and original sample results are greater than 5xCRQL and RPD is greater than 20. The original sample results are greater than or equal to MDLs. Detected analytes are qualified J. Nondetected analytes are qualified UJ.
	MF2A00, MF2A01, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A26, MF2A49, MF2A51, MF2A72, MF2A74, MF2A76, MF2A77, MF2A78, MF2A79, MF2A80, MF2A82, MF2A83
	Aluminum MF2A00D
	Manganese MF2A00D
	Iron MF2A00D
Duplicates	ICP_AES
NI04	The following Duplicate or original sample results are less than or equal to 5xCRQL and the absolute difference between duplicate and original samples are greater than CRQL. The original sample results are greater than or equal to MDLs. Detected analytes are qualified J. Nondetected analytes are qualified UJ.
	MF2A00, MF2A01, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A26, MF2A49, MF2A51, MF2A72, MF2A74, MF2A76, MF2A77, MF2A78, MF2A79, MF2A80, MF2A82, MF2A83
	Magnesium MF2A00D

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## Data Review Reports

Duplicates

Duplicates	ICP_MS
NI03	The following Duplicate and original sample results are greater than 5xCRQL and RPD is greater than 20. The original sample results are greater than or equal to MDLs. Detected analytes are qualified J. Nondetected analytes are qualified UJ.
	MF2A00, MF2A01, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A26, MF2A49, MF2A51, MF2A72, MF2A74, MF2A76, MF2A77, MF2A78, MF2A79, MF2A80, MF2A82, MF2A83
	Chromium MF2A00D
	Nickel MF2A00D
	Lead MF2A00D
Duplicates	ICP_MS
NI04	The following Duplicate or original sample results are less than or equal to 5xCRQL and the absolute difference between duplicate and original samples are greater than CRQL. The original sample results are greater than or equal to MDLs. Detected analytes are qualified J. Nondetected analytes are qualified UJ.
	MF2A00, MF2A01, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A26, MF2A49, MF2A51, MF2A72, MF2A74, MF2A76, MF2A77, MF2A78, MF2A79, MF2A80, MF2A82, MF2A83
	Arsenic MF2A00D
	Cobalt MF2A00D

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Data Review Reports

Holding Times/Preservation

Holding Times/Preservation	Hg
NHT01	The following preserved samples are improperly maintained at temperatures outside the range of 4+/-2 C. Detected analytes with results greater than or equal to MDLs are qualified J Use professional judgment to qualify the nondetected analytes.
	MF2A00, MF2A00D, MF2A00S, MF2A01, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A26, MF2A49, MF2A51, MF2A72, MF2A74, MF2A76, MF2A77, MF2A78, MF2A79, MF2A80, MF2A82, MF2A83

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\*\*Data Review Reports\*\*

Holding Times/Preservation

Holding Times/Preservation	ICP_AES
NHT01	The following preserved samples are improperly maintained at temperatures outside the range of 4+/-2 C. Detected analytes with results greater than or equal to MDLs are qualified J Use professional judgment to qualify the nondetected analytes.
	MF2A00, MF2A00D, MF2A00L, MF2A00S, MF2A01, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A26, MF2A49, MF2A51, MF2A72, MF2A74, MF2A76, MF2A77, MF2A78, MF2A79, MF2A80, MF2A83

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Holding Times/Preservation

Holding Times/Preservation	ICP_MS
NHT01	The following preserved samples are improperly maintained at temperatures outside the range of 4+/-2 C. Detected analytes with results greater than or equal to MDLs are qualified J Use professional judgment to qualify the nondetected analytes.
	MF2A00, MF2A00A, MF2A00D, MF2A00L, MF2A00S, MF2A01, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A26, MF2A49, MF2A51, MF2A72, MF2A74, MF2A76, MF2A77, MF2A78, MF2A79, MF2A80, MF2A83

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### Data Review Reports

Matrix Spikes

Matrix Spikes	ICP_MS
NG08	The following Matrix Spike samples have percent recoveries less than 30% and post-digestion spike samples have percent recoveries greater than or equal to 75%. Detected analytes with results greater than or equal to MDLs are qualified J. Nondetected analytes are qualified UJ.
	MF2A00, MF2A01, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A26, MF2A49, MF2A51, MF2A72, MF2A74, MF2A76, MF2A77, MF2A78, MF2A79, MF2A80, MF2A82, MF2A83
	Antimony MF2A00S
Matrix Spikes	ICP_MS
Matrix Spikes NG11	ICP_MS  The following Matrix Spike samples have percent recoveries in the range of 30-74% and post-digestion spike samples have percent recoveries greater than or equal to 75%. Detected analytes with results greater than or equal to MDLs are qualified J. Nondetected analytes are qualified UJ.
	The following Matrix Spike samples have percent recoveries in the range of 30-74% and post-digestion spike samples have percent recoveries greater than or equal to 75%. Detected analytes with

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### Data Review Reports

Serial Dilution

Serial Dilution	ICP_MS
NL032	The following ICP-MS Serial Dilution (SD) samples have percent difference (%D) greater than 10% and initial sample results are greater than 50xMDLs. The detected analytes in samples with results greater than or equal to MDLs are qualified J. Nondetected analytes in samples are qualified UJ.
	MF2A00, MF2A01, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A26, MF2A49, MF2A51, MF2A72, MF2A74, MF2A76, MF2A77, MF2A78, MF2A79, MF2A80, MF2A82, MF2A83
	Vanadium MF2A00L
	Chromium MF2A00L